CiTO Annotation Javascript function

Usage

To use, download the javascript folder, and reference the CiTO files in your web page using the following code:

```
<script  type="text/javascript" src="./javascript/cito.js"></script>
<link rel="stylesheet" type="text/css" href="./javascript/cito.css">
<script language="JavaScript" type="text/javascript" src="./javascript/jquery.min.js"></script>
```

Additionally, modify the <body> HTML tag as follows:

```
<body onload='cito()'>
```

This modification will call the cito() function to modify the HTML in the page.

Modify line 10 of cito.js to define the type of reference list to be parsed.

Open the host web page in a web browser.

Web Services

CiTO Triples

A web service is available to view triples submitted using the JavaScript and Chrome functions.
To view, visit http://www.miidi.org/metaquery/cito

What happens when a user clicks on a CiTO property?

CiTO property that was previously unselected

When a user clicks on a CiTO property that was previously unselected, the value is stored in the user's web browser and also sent to an external web service and saved in a database.

Value stored in user's web browser

- A key-value pair is stored in the browser's web storage facility http://en.wikipedia.org/wiki/Web_storage using the following statement: localStorage.setItem(key,value);
    - The **key** is set to a value created by concatenating the browser window's url and the unique identifier for the HTML that forms the CiTO property 'button' in the web page.
    - The **value** is set to '1'.

Value stored in external database

- An AJAX request is sent that inserts a record into a database hosted at www.miidi.org with the following fields:
    - unique id for database record (auto-increment)
    - userid - unique identifier for user - stored in browser's web storage facility
    - timestamp - when action was taken
    - action = 'add'
    - subject - url for the journal article == window.location.href
    - predicate - CiTO property
    - object - url (or citation text if url not available) parsed from reference item

record example:
| 294 | KDYXFJ4IM2RIAUBYRYUWPWO37BLNSD | Fri, 04 Jan 2013 17:25:34 GMT | add | <http://elife.elifesciences.org/content/1/e00248>
| <http://purl.org/spar/cito/obtainsBackgroundFrom> | <http://dx.doi.org/10.1073/pnas.0700629104>

CiTO property that was previously selected

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Value stored in user's web browser

- A key-value pair is stored in the browser's web storage facility http://en.wikipedia.org/wiki/Web_storage using the following statement: localStorage.setItem(key,value);

    - The **key** is set to a unique value created by concatenating the browser window's url and the unique identifier for the HTML that forms the CiTO property 'button' in the web page.
    - The **value** is set to '0'.

Value stored in external database

- An AJAX request is sent that inserts a record into a database hosted at www.miidi.org with the following fields:
    - userid - unique identifier for user - stored in browser's web storage facility
    - timestamp - when action was taken
    - action = 'remove'
    - subject - url for the journal article == window.location.href
    - predicate - CiTO property
    - object - url (or citation text if url not available) parsed from reference item

Browser support

With the browser-independent javascript file, the issue of browser support raises itself. There are two aspects of the code where this is relevant:

- the use of HTML5 Local Storage
- the use of XMLHttpRequest to make AJAX calls

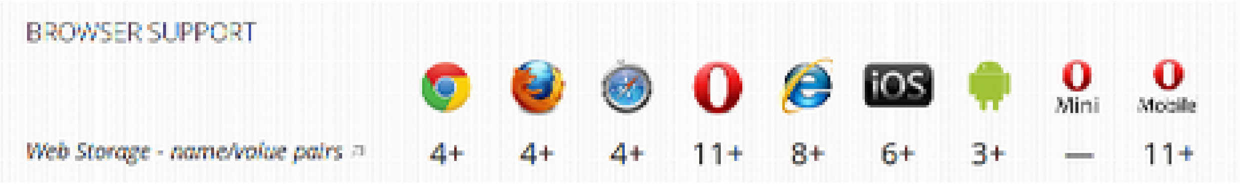
XMLHttpRequest

The code instantiates the XMLHttpRequest object with the following line:
var xhr = new XMLHttpRequest();
This is supported by all modern web browsers including Chrome, Firefox, Safari, Opera and Internet Explorer 7+. It is not supported by IE6 and below.

HTML5 Local Storage

The use of HTML5 Local Storage to store local name value pairs is supported by the latest versions of the most commonly-used web browsers, as listed at http://www.html5rocks.com/en/features/storage

These two features of the CiTO Javascript file mean that the web browser versions listed below are the oldest that are supported:



BROWSER SUPPORT

						iOS		Mini	Mobile
Web Storage - name/value pairs	4+	4+	4+	11+	8+	6+	3+	—	11+